US005923307A

United States Patent [19]

Hogle, IV

[11] **Patent Number:** **5,923,307**

[45] **Date of Patent:** **Jul. 13, 1999**

[54] **LOGICAL MONITOR CONFIGURATION IN A MULTIPLE MONITOR ENVIRONMENT**

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[21] Appl. No.: **08/786,972**

[22] Filed: **Jan. 27, 1997**

[51] **Int. Cl.⁶** **G06F 3/00**
[52] **U.S. Cl.** **345/4**; 345/342
[58] **Field of Search** 345/326–358, 345/1, 3, 4, 5, 6

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[57] **ABSTRACT**

A computer system arranges multiple monitors in logical space to form a contiguous and non-overlapping region by determining relative positions in logical space for the monitor spaces, comparing the relative positions of the monitor spaces, and positioning the monitor spaces in logical space based on a result of the comparing. The comparing and positioning may be performed upon initialization of the computer system, or automatically in response to a geometry change (e.g., add/remove/move monitor, change monitor characteristics), or both. Following a monitor geometry change, windows or other graphic objects appearing in the monitor spaces may be positioned as needed to maintain a robust virtual desktop environment.

48 Claims, 32 Drawing Sheets

VIRTUAL DESKTOP
100

WINDOW
A

MONITOR #1   MONITOR #2